

What Is Claimed Is:

1 <sup>Sub A.2.</sup> 1. A method for compressing video data in a computer system,  
2 comprising:  
3 receiving a stream of data from a current video frame in the computer  
4 system;  
5 computing a difference frame from the current video frame and a previous  
6 video frame as the current video frame streams into the computer system; and  
7 storing the difference frame in a memory in the computer system.

1 2. The method of claim 1, including storing the current video frame in  
2 the memory in the computer system.

1 3. ~~The method of claim 2, wherein the current video frame is written~~  
2 ~~over a previous video frame in the memory.~~

1 4. The method of claim 1, wherein computing the difference frame  
2 includes computing an exclusive-OR between the current video frame and the  
3 previous video frame.

1 5. ~~The method of claim 1, wherein computing the difference frame~~  
2 ~~includes computing a difference between a block of data from the current video~~  
3 ~~frame and a block of data from the previous video frame.~~

1 6. The method of claim 1, wherein storing the difference frame in  
2 memory includes storing the difference frame in the memory using block  
3 transfers.

1           7.     The method of claim 1, including compressing the video data using  
2     the difference frame to produce compressed video data.

1           8.     The method of claim 1, including performing a color space  
2     conversion on the video data.

1           9.     The method of claim 1, including using the video data in  
2     compressed form in a video teleconferencing system.

1           10.    The method of claim 1, including storing instructions and data for  
2     the computer system in the memory.

1           11.    The method of claim 1, wherein computing the difference frame  
2     includes computing the difference frame in a core logic chip within the computer  
3     system.

1           12.    The method of claim 1, wherein computing the difference frame  
2     includes computing the difference frame in circuitry outside of a central  
3     processing unit in the computer system.

1 <sup>sub</sup> 13.    A method for compressing video data in a computer system,  
2 <sup>A3</sup> <sub>int</sub> comprising:

3           receiving a stream of data from a current video frame in the computer  
4     system;

5           computing a difference frame from the current video frame and a previous  
6     video frame as the current video frame streams into the computer system, wherein

7 computing the difference frame includes computing an exclusive-OR between the  
8 current video frame and the previous video frame;  
9 storing the difference frame in a memory in the computer system;  
10 storing the current video frame in the memory in the computer system; and  
11 compressing the video data using the difference frame to produce  
12 compressed video data.

13  
14. The method of claim 13, wherein the current video frame is written  
15 over a previous video frame in the memory.

16  
17. The method of claim 13, wherein computing the difference frame  
18 includes computing a difference between a block of data from the current video  
19 frame and a block of data from the previous video frame.

20  
21. The method of claim 13, wherein storing the difference frame in  
22 memory includes storing the difference frame in the memory using block  
23 transfers.

24  
25. The method of claim 13, including using the compressed data in a  
26 video teleconferencing system.

27  
28. The method of claim 13, including performing a color space  
29 conversion on the video data.

30  
31. The method of claim 13, including storing instructions and data for  
32 the computer system in the memory.

